

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A high throughput integrated system for qualitative and quantitative biomolecules analysis comprising:
 - a) A robotic platform fitted with multiple, spatially arrayed affinity microcolumns,
 - b) a mass spectrometer target, different and separate from the spatially arrayed affinity microcolumns, having a spatial array corresponding to the same spatial array as the affinity microcolumns, and,
 - c) a mass spectrometer capable of accepting the spatially arrayed target.
2. (Original) The system of Claim 1 wherein the spatial array comprises between 4 and 1536 elements.
3. (Original) The system of Claim 1 wherein the robotic platform further comprises multiple processing stages.
4. (Currently Amended) The system of Claim 1 wherein if the affinity microcolumns receive specific biological molecules in a biological media, the specific biological molecules are retrieved via affinity reaction the spatially arrayed affinity microcolumns comprise an affinity reagent for retrieving biological molecules contained in a biological media.
5. (Currently Amended) The system of Claim 1 wherein the mass spectrometer target has modifying activity comprises a modifying agent.
6. (Original) The system of Claim 1 wherein the mass spectrometer is a matrix-assisted laser desorption/ionization time-of-flight mass spectrometer.
7. (Currently Amended) The system of Claim 3 wherein at least one of the multiple processing stages is for the selective isolation of specific biological molecules present in a biological media using affinity microcolumns comprises affinity microcolumns having an affinity reagent for retrieving biological molecules contained in a biological media.

8. (Currently Amended) The system of Claim 3 wherein at least one of the multiple processing stages is for rinsing the affinity microcolumns free of non-specifically retained compounds comprises affinity microcolumns capable of being rinsed free of non-specifically retained compounds.

9. (Currently Amended) The system of Claim 3 wherein at least one of the multiple processing stages is for the deposition of selectively retained biological molecules onto a mass spectrometer target comprises a mass spectrometer target for depositing selectively retained biological molecules.

10. (Currently Amended) The system of Claim 1 wherein if multiple different samples of biological media are presented, then they are processed relatively simultaneously and in parallel using the robotic platform fitted with multiple, spatially arrayed affinity microcolumns and the mass spectrometer target having a spatial array corresponding to the same spatial array as the affinity microcolumns further comprising means for the robotic platform and the mass spectrometer target to process multiple biological media samples simultaneously and in parallel.

11. (New) The system of claim 1 further comprising a robotic to lower the spatially arrayed affinity microcolumns into multiple biological samples and draw the biological samples into the affinity microcolumns.

12. (New) The system of claim 4 further comprising a robot to rinse the retrieved biological molecules from the affinity microcolumns with a small volume of buffer.